Applicant(s): SRIENC et a! Serial No.: 10/090,965

Express Mail No.: EV 07

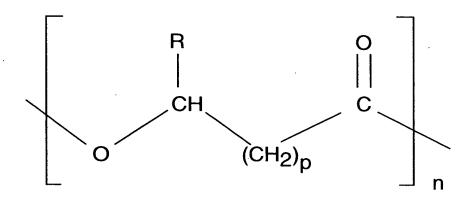
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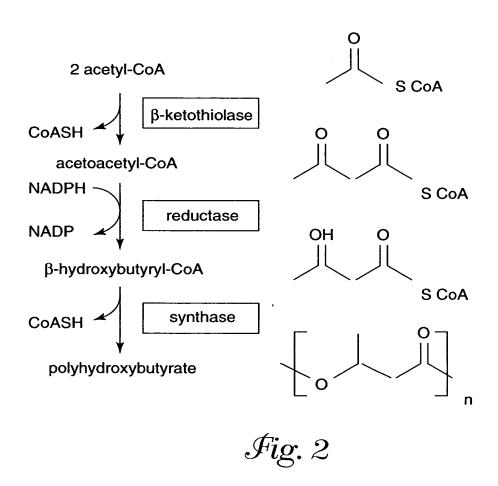
$$\begin{array}{ccc} \mathsf{PHA} & \mathsf{SCL} & \left\{ \begin{matrix} \mathsf{R} = -\mathsf{CH}_3 & & \Longrightarrow & \mathsf{P(3HB)} \\ \mathsf{R} = -\mathsf{CH}_2\mathsf{CH}_3 & & \Longrightarrow & \mathsf{P(3HV)} \end{matrix} \right. \end{array}$$

PHA MCL 
$$\begin{cases} R = -(CH_2)_2CH_3 & \Longrightarrow P(3HH) \\ R = -(CH_2)_4CH_3 & \Longrightarrow P(3HO) \end{cases}$$

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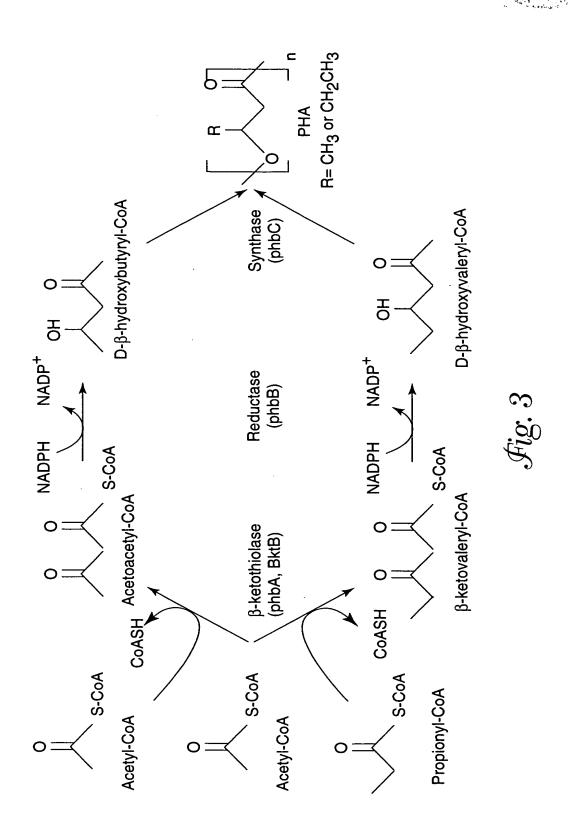
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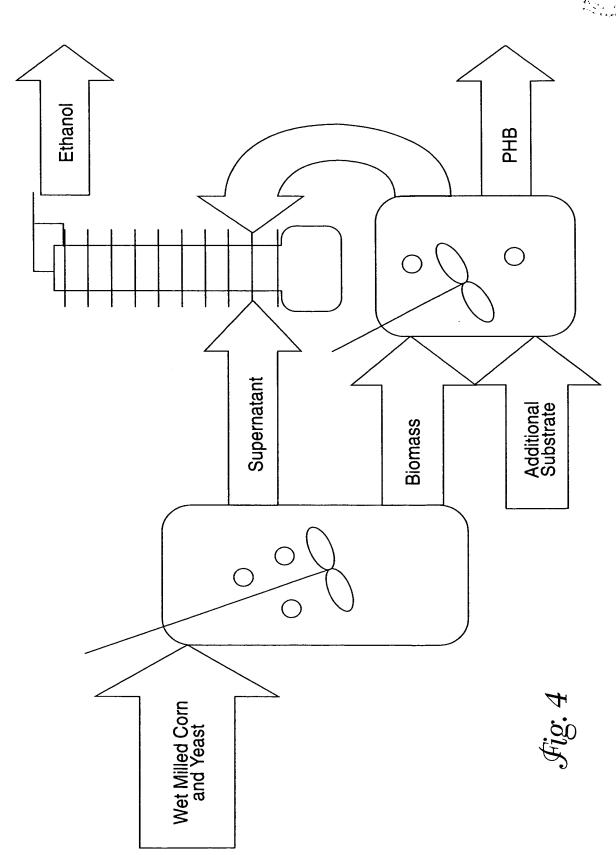


Title: PRODUCTION OF POLYHYDROXYALKANOATES
Applicant(s): SRIENC et al.
Serial No.: 10/090,965 Filed: March 4, 2002
Express Mail No.: EV 0 32 US

Filed: March 4, 2002

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Applicant(s): SRIENC et al.
Serial No.: 10/090,965 Filed: March 4, 2000
Express Mail No.: EV 07 2 US

Filed: March 4, 2002

10090965.0627 Docket: 110.014801

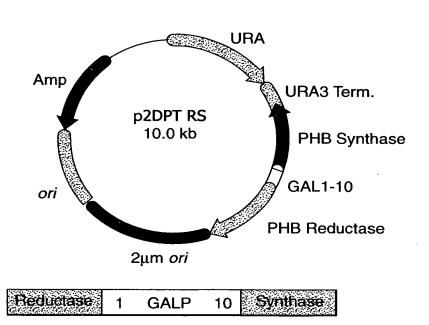


Fig. 5

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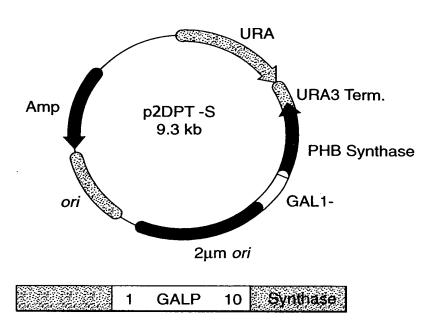


Fig. 6

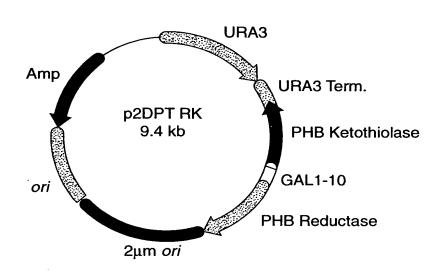
Title: PRODUCTION OF POLYHYDROXYALKANOATES
Applicant(s): SRIENC et al.
Serial No.: 10/090,965 Filed: March 4, 2002
Express Mail No.: EV 0 32 US

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Reductase **GALP** 10 Kelpthiolase

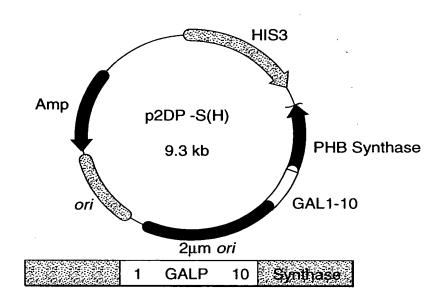
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Express Mail No.: EV 07373 S

Filed: March 4, 2002

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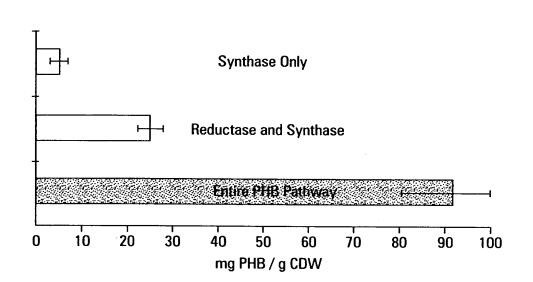


Fig. 9

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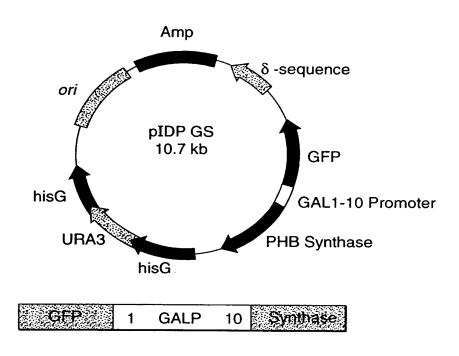


Fig. 10

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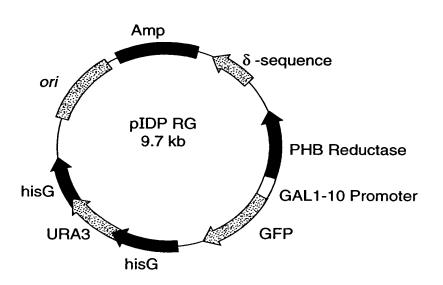


Fig. 11

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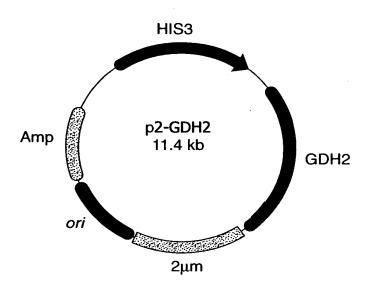
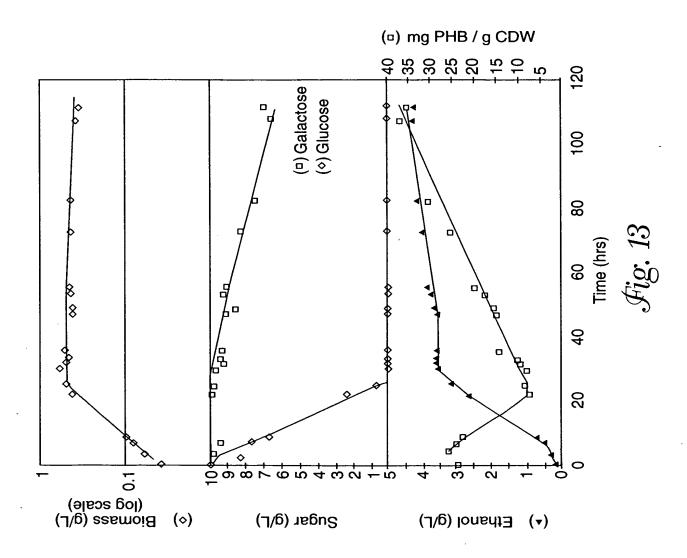


Fig. 12

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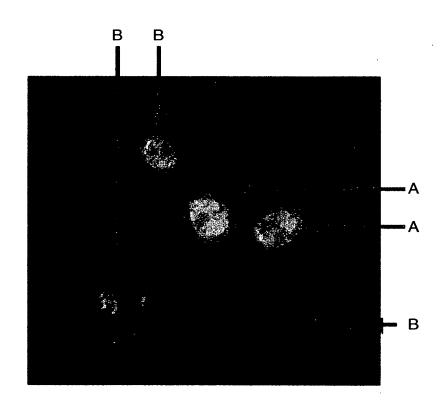


Fig. 14

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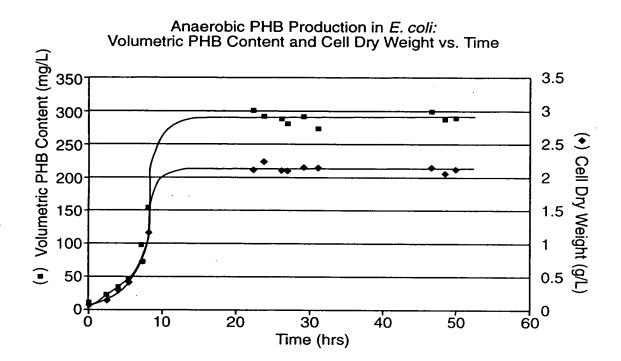


Fig. 15

Title: PRODUCTION OF POLYHYDROXYALKANOATES
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Express Mail No.: EV 073 US

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p2TG1T -K(U)	2µm	TEF1/GAL1	Ketothiolase	URA3	URA3	8.6kb
p2TG1 -S(H)	2µm	TEF1/GAL1	Synthase	None	HIS3	9.0kb
p2TG1 -R(H)	2µm	TEF1/GAL1	Reductase	None	HIS3	8.0kb
pIT1T K(U)	None-integrative	TEF1	Ketothiolase	URA3	URA3	6.2kb
pIT2T K(U)	None-integrative	TEF2	Ketothiolase	URA3	URA3	6.2kb
pIT1T S(T)	None-integrative	TEF1	Synthase	URA3	TRP1	6.6kb
pIT2T S(T)	None-integrative	TEF2	Synthase	URA3	TRP1	6.6kb
pIT1T R(Le)	None-integrative	TEF1	Reductase	URA3	LEU2	6.8kb

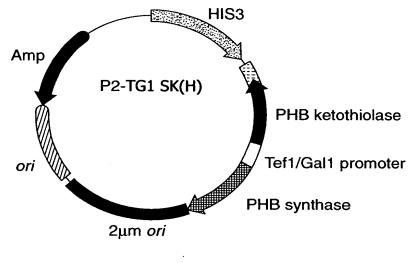
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**Docket**: 110.014

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## Constitutive Promoter Plasmid System



Synthase β-ketothiolase Gal1 Tef1